## In the Claims

1. (Currently Amended) A method of measuring frequency interference between a plurality of cell sites in a wireless telecommunications system, the method comprising:

selecting a frequency in a <u>first</u> cell site to be used as a beacon frequency, <u>wherein</u> selecting a frequency includes selecting a frequency carrying the least amount of traffic across a <u>plurality of cell sites and protecting the frequency from carrying traffic;</u>

activating the beacon frequency in the first cell site;

recording, at a telecommunications switch, a signal strength of the beacon frequency as measured by a first wireless device operating in the <u>first</u> cell site and a signal strength of the beacon frequency as measured by a second wireless device operating in <u>another a second</u> cell site; and

determining the frequency interference between the <u>first</u> cell site and the <u>other second</u> cell site based on the signal strengths.

- 2. (Currently Amended) The method of claim 1, wherein the <u>first and second</u> cell sites are adjacent cell sites.
- 3. (Canceled)
- 4. (Original) The method of claim 1, wherein measuring the frequency interference includes constructing a carrier/interference matrix.
- 5. (Original) The method of claim 1, further comprising de-activating the beacon frequency after the signal strengths are recorded.
- 6. (Currently Amended) The method of claim 1, wherein selecting a frequency includes selecting a frequency that is a <u>frequency carrying the least amount of traffic across a plurality of cell sites</u> least-used frequency along with adjacent lower and upper channels.
- 7. (Original) The method of claim 1, wherein selecting a frequency includes selecting a guard frequency.
- 8. (Original) The method of claim 1, further comprising removing a frequency adjacent the beacon frequency from availability for use in the system by wireless device users.

- 9. (Original) The method of claim 1, further comprising repeating the method for all cell sites in the telecommunications system.
- 10. (Original) The method of claim 1, further comprising adding the beacon frequency to a list of frequencies.
- 11. (Original) The method of claim 10, wherein adding the beacon frequency to a list of frequencies includes adding the beacon frequency to a mobile assisted handoff (MAHO) list in a telecommunications switch.
- 12. (Currently Amended) The method of claim 1, further comprising determining whether the <u>first</u> cell site and the <u>other second</u> cell site may be selected for frequency re-use based on determining the frequency interference.
- 13. (Original) The method of claim 1, further comprising selecting a trigger frequency to simulate a hand-off situation for the second wireless device.
- 14-25 (Canceled)